

Measurement Challenges and Considerations for 802.11ad

Zhang Qin, Li Jin and Ingram Donald
 1400 Fountaingrove Parkway, Santa Rosa, CA 95403
 Keysight Technologies

Abstract

Situated at 60GHz with 2GHz modulation bandwidth, 802.11ad brings its own set of advantage but also challenges. The high operating frequency together with antenna array on-chip integration means that physical connection to DUT will be difficult. As a result, over-the-air testing (OTA) will become the norm for system level design verification and manufacturing. While in OTA test, challenges like positioning, link loss calibration, beamforming calibration and verification are not easy to overcome. We will talk about the considerations for above difficulties and possible solution from Keysight.

